Format No: CP/TF/01

TEST REPORT ON PHYSICAL REQUIREMENTS OF SOLID CONCRETE BLOCKS

Lab ID	:	**CP-2018-04-10-03** **Date: 14-04-18**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to roads and drains and other works in Kuvempunagara 2nd Stage Cross road and Surroundings in ward No.11 Kuvempunagara.
Agency	:	Executive Engineer, KRIDL, #280, 59th Cross road, 17th 'C' Main road, 3rd 'Y' Block, Rajajinagara, Bangalore-560 010.
Customer's Reference	:	BBMP/EE/BTP/WO/148/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	10-04-18
Sample ID No	:	2018-04-10-03 /04
Sample Type/Size	:	Solid concrete blocks of size (400X200X200)mm
Reference to BIS codes	:	IS : 2185 (Part 1) : 2005(RA 2010) Concrete Masonry Specification Part 1:Hollow and Solid Concrete Blocks (Dimensions -Annex-B, Clause 9.2 and 10 , Block density Annex -C Clause 9.3 and10, Compressive strength Annex -D Clause 9.4 and 10, Water absorption Annex -E Clause 9.5 and 10)
Date of test	:	11-04-18

BLOCK DENSITY:

Sl. No.	Measurement of overall Dimensions of Individual Blocks			Overall Volume of the Block in Cubic Centimetres	Weight of Oven Dried Block in Kilograms to the nearest 10 Gram	Block Density in Kg/cum*10^6	Avg.Block Density in (Kg/cum)	As per IS 2185 (Part 1):2005 (RA 2010)
	Length	Breadth	Height					
	mm	mm	mm	(Cm^3)	Kg	Kg/m^3	Kg/m^3	
1	402	203	202	16484	33.850	2053.5	2069.7	Not less than 1800Kg/m^3
2	401	201	201	16201	33.910	2093.1		
3	403	202	201	16363	33.75	2062.6		

WATER ABSORPTION:

Sl. No.	Wet weight after water absorption	Dry weight (Oven dry)	Water Absorption	Avg.Water Absorption	As per IS 2185 (Part 1):2005 (RA 2010)
	kg	kg	%	%	
1	34.890	33.105	5.39	4.66	Shall not be more than 10% by mass
2	34.620	33.200	4.28		
3	34.860	33.420	4.31		

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DIMENSION ANALYSIS

Sl.no	Length mm	Breadth mm	Height mm	Requirement as per IS 2185(Part 1):2005
1	402	202	203	Length : ± 5mm Breadth : ± 3mm Height : ± 3mm
2	401	201	201	
3	402	203	203	
4	403	201	198	
5	405	203	203	
6	404	201	201	
7	400	203	201	
8	401	201	203	
9	402	200	200	
10	403	200	201	
11	401	201	203	
12	402	203	201	
13	403	202	203	
14	400	201	201	
15	401	203	203	
16	402	201	201	
17	402	199	203	
18	401	203	201	
19	403	201	201	
20	402	202	203	
Average of 20	**402**	**202**	**202**	

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COMPRESSIVE STRENGTH:

Sl. No.	Size of solid block		Area	Failure Load	Compressive strength	Average Compressive strength
	Length	Breadth				
	mm	mm	(mm^2)	(KN)	N/mm^2	(N/mm^2)
1	402	202	81204	342.8	4.2	4.3
2	401	201	80601	355.9	4.4	
3	402	203	81606	362.4	4.4	
4	403	201	81003	348.7	4.3	
5	405	203	82215	356.7	4.3	
6	404	201	81204	356.5	4.4	
7	400	203	81200	324.1	4.0	
8	401	201	80601	348.1	4.3	

As per IS Requirements (Table 2, Clause 5.1, 5.2 and 9.4)

Compressive strength		
Grade	**Minimum average**	**Minimum Individual units.**
C (5.0)	5.00 N/mm^2	4.00 N/mm^2
C (4.0)	4.00 N/mm^2	3.20 N/mm^2

Note:
The results pertain to the samples received and tested.
All information furnished by Customer/Representative
Any correction in the report will make this report invalid
This report without prior written approval should not be reproduced or published in full or part.
Samples will be disposed after 90 days from the date of issue of test certificate

FOR CIVIL Pro.

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

CIVIL Pro Sig..... Date..... BANGALORE

****End of Report****